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## (54) WATER-BASED PIGMENT DISPERSION

(57)Abstract:

**PURPOSE:** To provide the subject dispersion composed of a pigment and a water- based urethane resin and having improved dispersion stability of the pigment and remarkably improved water-resistance of coating film compared with conventional dispersion when used as a colorant for water-paint or water-based printing ink.

**CONSTITUTION:** The objective dispersion is composed of (A) a pigment and (B) a water-based urethane resin and contains 0.1-10 pts.wt. of the component B based on 1 pt.wt. of the component A. The component B is produced preferably by reacting an active hydrogen-containing compound such as a 2-6C branched or straight-chain alkanediol adipate and/or phthalate diol or 1,4- butanediol with a compound having active hydrogen and hydrophilic group such as  $\alpha$ ,  $\alpha$ -diol propionic acid and an organic polyisocyanate such as 2,4- tolylene diisocyanate, subjecting the obtained prepolymer having hydrophilic group to a treatment to form anion or cation and dissolving the product while extending the chain with water and/or a polyamine.

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